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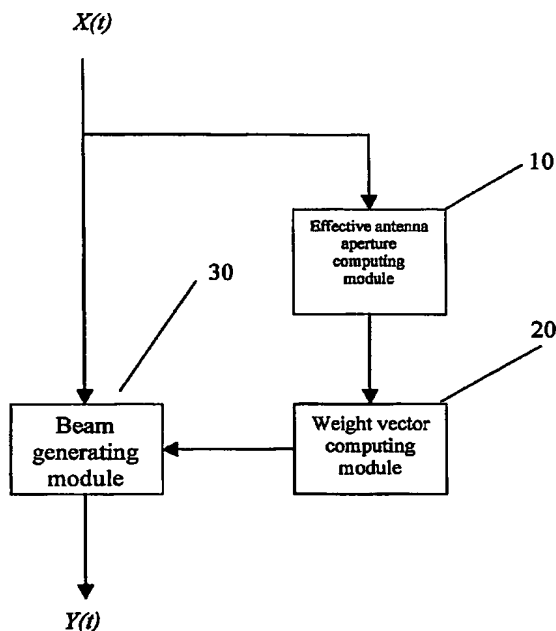
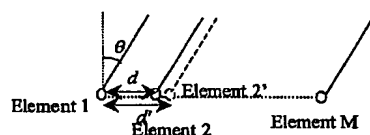
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(54) Title: A METHOD AND APPARATUS FOR BEAMFORMING BASED ON BROADBAND ANTENNA



(57) Abstract: A beamforming method based on broadband antenna is provided, comprising: detecting the frequency of input signals of an antenna; determining the effective antenna aperture between elements of the antenna array according to the detected frequency; computing the weight vector of each element of the antenna array to the signals according to the determined effective antenna aperture and the transmission function of the antenna array; multiplying the input signals with said weight vector of each element of the antenna array to the signals, combining them and outputting the beam signals. By performing weighting operation respectively to the input signals after a series of delaying operation, and then combining them, the single digital signals can be acquired. This effectively reduces the odds produced by the antenna between transmitting signals and receiving signals, and thus dramatically improves the communication quality.



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